

Serial No. 10/510,566
Docket No. 2539LN.eh

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AMENDMENTS TO THE CLAIMS:

Please cancel claim 15 without prejudice or disclaimer and amend the claims as follows:

1. (Currently Amended) A device in a nozzle for monitoring and/or regulating of gas or liquid occurring in one or more ducts in the nozzle, or mixtures of gases, or mixtures of liquids, or mixtures of gases and liquids ~~or mixtures of one or more gases and/or one or more liquids~~ in a spray gun for a painting plant, comprising:

a pressure indicator mounted ~~in a proximity of~~ at an end of said one or more ducts in a channel which is intended for the gas or liquid or mixtures of gases, or mixtures of liquids, or mixtures of gas and liquids ~~mixture~~ which is to be monitored and/or regulated, the pressure indicator being connected to an electronic circuit for generating a signal corresponding to the pressure prevailing in the duct,

wherein the electronic circuit is connected to a circuit for regulating one or more valves for adjusting ~~the a~~ measured pressure to a desired value.

2. (Currently Amended) The device as claimed in Claim 1, wherein said one or more ducts in the nozzle comprises a plurality of ducts, which comprises one liquid duct and a plurality of gas ducts,

wherein said liquid duct is provided with a pressure indicator and said plurality of gas ducts are provided with a pressure indicator, and

wherein the pressure indicators of said liquid duct and said plurality of gas ducts are connected to the electronic circuit which is connected to a valve for each of said liquid duct and said plurality of gas ducts with a pressure indicator for adjusting a pressure in the duct to the desired value.

3. (Previously Presented) The device as claimed in claim 1, wherein the electronic circuit includes a circuit for converting an analog signal to a digital signal.

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4. (Previously Presented) The device as claimed in claim 1, wherein the electronic circuit includes a processor for executing thousands of measurements per second for realizing as exact and rapid a regulation as possible.

5. (Currently Amended) The device as claimed in Claim 4, wherein the electronic circuit stores the measurements in a data medium for later monitoring and evaluation.

6. (Currently Amended) The device as claimed in claim 1, wherein the electronic circuit includes a ~~low-energy~~ an energy section or a battery section ~~in an immediate proximity of~~ adjacent to the nozzle from which section the measurement pressure is transferred to peripheral equipment.

7. (Previously Presented) The device as claimed in claim 2, wherein the electronic circuit includes a circuit for converting an analog signal to a digital signal.

8. (Previously Presented) The device as claimed in claim 2, wherein the electronic circuit includes a processor for executing thousands of measurements per second for realizing as exact and rapid a regulation as possible.

9. (Previously Presented) The device as claimed in claim 3, wherein the electronic circuit includes a processor for executing thousands of measurements per second for realizing as exact and rapid a regulation as possible.

10. (Currently Amended) The device as claimed in claim 2, wherein the electronic circuit includes a ~~low-energy~~ an energy section or a battery section ~~in an immediate proximity of~~ adjacent to the nozzle from which section the measurement pressure is transferred to peripheral equipment.

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11. (Currently Amended) The device as claimed in claim 3, wherein the electronic circuit includes a ~~low energy~~ an energy section or a battery section ~~in an immediate proximity of~~ adjacent to the nozzle from which section the measurement pressure is transferred to peripheral equipment.

12. (Currently Amended) The device as claimed in claim 4, wherein the electronic circuit includes a ~~low energy~~ an energy section or a battery section ~~in an immediate proximity of~~ adjacent to the nozzle from which section the measurement pressure is transferred to peripheral equipment.

13. (Currently Amended) The device as claimed in claim 5, wherein the electronic circuit includes a ~~low energy~~ an energy section or a battery section ~~in an immediate proximity of~~ adjacent to the nozzle from which section the measurement pressure is transferred to peripheral equipment.

14. (Currently Amended) The device as claimed in claim 1, wherein said ~~mixtures of one or more gases and/or one or more liquids comprises one of air and paint~~ mixtures of gases, or mixtures of liquids, or mixtures of gases and liquids, comprises a mixture of gases, which comprises air or a mixture of liquids, which comprises paint, or a mixture of gases and liquids, which comprises one of air and paint.

15. (Canceled)

16. (Currently Amended) The device as claimed in claim 1, further comprising a second pressure indicator, ~~plurality of pressure indicators,~~

wherein said pressure indicator and said second pressure indicator ~~pressure indicators~~ are mounted ~~in a proximity of~~ at an end of each of said one or more ducts.

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17. (Currently Amended) The device as claimed in claim 2, further comprising a second pressure indicator, ~~plurality of pressure indicators~~;

wherein said pressure indicator and said second pressure indicator ~~pressure indicators~~ are mounted ~~in a proximity of~~ at an end of each of said one or more ducts.

18. (Currently Amended) A nozzle monitoring device, the nozzle including one or more ducts, said nozzle monitoring device comprising:

a pressure indicator, mounted ~~proximate~~ at an end of the one or more ducts, for monitoring a pressure of a material in the one or more ducts; and

an electronic circuit connected to said pressure indicator for generating a signal corresponding to the pressure of the material in the one or more ducts,

wherein the electronic circuit is connected to a circuit for regulating one or more valves for adjusting the pressure of the material in the one or more ducts.

19. (Currently Amended) The nozzle monitoring device according to claim 18, wherein said one or more ducts comprises a plurality of ducts, which comprises a gas duct and a plurality of liquid ducts.

20. (Currently Amended) The nozzle monitoring device according to claim 18, further comprising a second pressure indicator, ~~plurality of pressure indicators~~;

wherein said pressure indicator and said second pressure indicator ~~pressure indicators~~ are mounted ~~in a proximity of~~ at an end of each of said one or more ducts.

21. (Currently Amended) A material dispensing device, comprising:

a nozzle, having at least one duct, for dispensing at least one material;

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a pressure indicator, mounted ~~at proximate~~ an end of the at least one duct, for monitoring a pressure of a material in the at least one duct; and

an electronic circuit connected to said pressure indicator for generating a signal corresponding to the pressure of the material in the at least one duct,

wherein the electronic circuit is connected to a circuit for regulating one or more valves for adjusting the pressure of the material in the at least one duct.